

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/699,1368  
Source: IFW/16  
Date Processed by STIC: 1/26/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/26/2005

PATENT APPLICATION: US/09/699,136B

TIME: 16:25:37

Input Set : A:\010025-01 040112 SeqList.txt

Output Set: N:\CRF4\01262005\I699136B.raw

```

4 <110> APPLICANT: Kosan Biosciences, Inc.
5     Santi, Daniel
6     Peck, Larry
7     Dayem, Linda
8     Kealey, James
10 <120> TITLE OF INVENTION: HETEROLOGOUS PRODUCTION OF POLYKETIDES
13 <130> FILE REFERENCE: 30062-20049.00
15 <140> CURRENT APPLICATION NUMBER: US 09/699,136B
16 <141> CURRENT FILING DATE: 2000-10-27
18 <150> PRIOR APPLICATION NUMBER: US 60/161,414
19 <151> PRIOR FILING DATE: 1999-10-25
21 <150> PRIOR APPLICATION NUMBER: US 60/161,703
22 <151> PRIOR FILING DATE: 1999-10-27
24 <150> PRIOR APPLICATION NUMBER: US 60/206,082
25 <151> PRIOR FILING DATE: 2000-05-18
27 <160> NUMBER OF SEQ ID NOS: 2
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 447
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Isolated and recombinant form of the full
38     epimerase gene sequence
W--> 40 <221> NAME/KEY: CDS
41 <222> LOCATION: (1)...(444)
W--> 43 <400> 1
44 atg agt aat gag gat ctt ttc atc tgt atc gat cac gtg gca tat gcg      48
45 Met Ser Asn Glu Asp Leu Phe Ile Cys Ile Asp His Val Ala Tyr Ala
46 1          5          10          15
48 tgc ccc gac gcc gac gag gct tcc aag tac tac cag gag acc ttc ggc      96
49 Cys Pro Asp Ala Asp Glu Ala Ser Lys Tyr Tyr Gln Glu Thr Phe Gly
50          20          25          30
52 tgg cat gag ctc cac cgc gag gag aac ccg gag cag gga gtc gtc gag      144
53 Trp His Glu Leu His Arg Glu Glu Asn Pro Glu Gln Gly Val Val Glu
54          35          40          45
56 atc atg atg gcc ccg gct gcg aag ctg acc gag cac atg acc cag gtt      192
57 Ile Met Met Ala Pro Ala Ala Lys Leu Thr Glu His Met Thr Gln Val
58 50          55          60
60 cag gtc atg gcc ccg ctc aac gac gag tcg acc gtt gcc aag tgg ctt      240
61 Gln Val Met Ala Pro Leu Asn Asp Glu Ser Thr Val Ala Lys Trp Leu
62 65          70          75          80
64 gcc aag cac aat ggt cgc gcc gga ctg cac cac atg gca tgg cgt gtc      288

```

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```

65 Ala Lys His Asn Gly Arg Ala Gly Leu His His Met Ala Trp Arg Val
66      85      90      95
68 gat gac atc gac gcc gtc agc gcc acc ctg cgc gag cgc ggc gtg cag      336
69 Asp Asp Ile Asp Ala Val Ser Ala Thr Leu Arg Glu Arg Gly Val Gln
70      100      105      110
72 ctg ctg tat gac gag ccc aag ctc ggc acc ggc ggc aac cgc atc aac      384
73 Leu Leu Tyr Asp Glu Pro Lys Leu Gly Thr Gly Gly Asn Arg Ile Asn
74      115      120      125
76 ttc atg cat ccc aag tcg ggc aag ggc gtg ctc atc gag ctc acc cag      432
77 Phe Met His Pro Lys Ser Gly Lys Gly Val Leu Ile Glu Leu Thr Gln
78      130      135      140
80 tac ccg aag aac tga      447
81 Tyr Pro Lys Asn
82 145
85 <210> SEQ ID NO: 2
86 <211> LENGTH: 148
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Deduced amino acid sequence of the epimerase gene
92 sequence
94 <400> SEQUENCE: 2
95 Met Ser Asn Glu Asp Leu Phe Ile Cys Ile Asp His Val Ala Tyr Ala
96 1      5      10      15
97 Cys Pro Asp Ala Asp Glu Ala Ser Lys Tyr Tyr Gln Glu Thr Phe Gly
98      20      25      30
99 Trp His Glu Leu His Arg Glu Glu Asn Pro Glu Gln Gly Val Val Glu
100      35      40      45
101 Ile Met Met Ala Pro Ala Ala Lys Leu Thr Glu His Met Thr Gln Val
102      50      55      60
103 Gln Val Met Ala Pro Leu Asn Asp Glu Ser Thr Val Ala Lys Trp Leu
104 65      70      75      80
105 Ala Lys His Asn Gly Arg Ala Gly Leu His His Met Ala Trp Arg Val
106      85      90      95
107 Asp Asp Ile Asp Ala Val Ser Ala Thr Leu Arg Glu Arg Gly Val Gln
108      100      105      110
109 Leu Leu Tyr Asp Glu Pro Lys Leu Gly Thr Gly Gly Asn Arg Ile Asn
110      115      120      125
111 Phe Met His Pro Lys Ser Gly Lys Gly Val Leu Ile Glu Leu Thr Gln
112      130      135      140
113 Tyr Pro Lys Asn
114 145

```

**VERIFICATION SUMMARY**

DATE: 01/26/2005

PATENT APPLICATION: **US/09/699,136B**

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L:40 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1